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Robot programming involves developing a set of commands to enable an industrial robot to interact with its environment in order to perform a specific task. Designing accurate control schemes provides articulated robots with the autonomy needed to optimize and complete manufacturing applications. FANUC robots are some of the most widely used in industrial manufacturing. They are versatile, intelligent, and incredibly durable. FANUC robots can be programmed for just about any production related task through the following methods. Teach Pendants Teach pendants are the most common method for industrial robot programming. These handheld devices are part of the robot's control system and come with the robot when purchased through a manufacturer. There are four main components of FANUC teach pendants. The first is the display screen which illustrates the programming menus as well as allows the operator to interact with the robot. The second component is the emergency stop button or E-stop. This is available for quickly stopping the robot to prevent collisions or other adverse events. The input pad is a keypad used to enter program commands. Newer FANUC pendants have replaced the keypad with a touchscreen. The last component is the USB port which allows for backup and file storage. There are three types of FANUC teach pendants which vary based upon the controller model. Older FANUC robots with R-J3, R-J3iB, or R-J3iC(in some cases) use FANUC's Legacy pendant. Robots using the Legacy pendant include the FANUC Arcmate 120iB and the R-2000iA as they both use R-J3iB controllers. FANUC's newer iPendant is available with their R-30iA, R-30iB, and R-30iB Plus controllers. The FANUC Arcmate 120iC can be programmed with the iPendant. FANUC's Haptic iPendant offers similar features as the iPendant only with vibration alerts. It is also available for robots using R-30iB or R-30iB Plus controllers. Another option for programming FANUC robots is through their ROBOGUIDE software. FANUC ROBOGUIDE is offline software that combines both programming and simulation. Users can create programs and test them in life-like work environments all outside of the production environment and without the actual robot. This helps users optimize their robotic system while avoiding expensive prototyping. Most of FANUC's robots are compatible with ROBOGUIDE software. Unlike their teach pendants which come standard with their robots, ROBOGUIDE is available as an option. The offline software is beneficial for programming complex applications. The FANUC Arcmate 100iC can be programmed through ROBOGUIDE for complex welds. While the FANUC M-710iC/50 can be programmed with the software for automated material handling. Hand guidance programming is available for FANUC's collaborative robots, the CR Series. Hand guidance, also referred to as lead through programming, significantly simplifies the teaching process allowing the most novice of robot users to program. The FANUC CR-7iA is programmed through simply manually guiding its arm through the waypoints of an application while it is in teach mode. The CR-7iA is then able to replicate the application path on its own over and over. Hand guidance is especially beneficial for applications with several steps, as the operator avoids having to write multiple lines of code, saving valuable time. Contact Robots Done Right in order to discuss selling a used FANUC industrial robot today. Many repair facilities will replace defective components, clean the pendant a little, and maybe perform a bench test. At K+S, we don't just repair your teach pendant, we completely refurbish it! Below is a list of FANUC Model Numbers that we repair! 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As a result, there is no repair offered by the OEM for this model, only as an exchange. K+S has had the LCD's reverse engineered and manufactured exclusively. K+S can offer a repair for these pendants rather than forcing an exchange. K+S Services is ISO 9001:2015 certified at all locations. Our continued ISO certification ensures that our level of quality is maintained and our efforts for continuous improvement are always expanding. Category: Automation Repair, FANUC, Teach Pendants | Tags: fanucteachpendants, roboticsystems, teachpenants, teachpendantrepair Previous post: KUKA Teach Pendant Repair As a seasoned member of the manufacturing world, you understand the pivotal role that precision and efficiency play in keeping your factory running smoothly. When it comes to the brains behind your robotic workforce, the FANUC Teach Pendant is a crucial component that ensures your robots uptime and efficiency. In this guide, we'll delve into the world of FANUC Teach Pendants, exploring model numbers, reasons for replacement or repair, compatible robots, and how T.I.E. can help you save 50-75% off OEM pricing with like-new refurbished parts.Fanuc, a name synonymous with industrial automation, offers a variety of teach pendant models tailored to different controller series. Some popular FANUC Teach Pendant models include:Fanuc A05B-2301-C37x: Compatible with RJ2 Control Reliable, RJ3 Control Reliable, RJ3iB and R30iA controller series.Fanuc A05B-2490-Cxxx: Designed for RJ3iB controllers.Fanuc A05B-2518-Cxxx: Commonly RJ3iB and R30iA controllers.Fanuc A05B-2255-Cxxx: Designed for R30iB controllers.Fanuc A05B-2256-Cxxx: Commonly used on R30iB Plus controllers.Each model comes with unique features and functionalities, catering to specific robotic applications. So, how do you know when it's time to consider replacement or repair?Physical Damage: Accidents happen. If your FANUC Teach Pendant has suffered physical damage due to falls or mishandling, it might be time to consider a replacement.Wear and Tear: With years of use, buttons and cables can wear out, leading to unresponsive commands or connection issues. A repair or replacement can revitalize your operations.Obsolete Models: As technology advances, older teach pendant models may become obsolete or incompatible with new robots. Upgrading to a newer model ensures future-proofing your operations.Fanuc Teach Pendants are versatile and compatible with a wide range of FANUC robots. These robots include, but are not limited to:Regardless of the specific robot model you're working with, there's a FANUC Teach Pendant designed to complement it seamlessly.Now, let's talk solutions. When it's time to replace or repair your FANUC teach pendant, turn to T.I.E. - North America's largest reseller of Fanuc parts. We specialize in providing high-quality Fanuc spare parts, including FANUC Teach Pendants, at prices that won't break the bank.Our comprehensive refurbishment process ensures that our replacement FANUC Teach Pendants perform at like-new OEM quality. You can save a remarkable 50-75% off OEM pricing without compromising on reliability or precision. We understand the demands of your industry, and our goal is to keep your factory operating at peak performance while optimizing your budget.Don't let a malfunctioning or outdated FANUC Teach Pendant slow down your production. Take action today and explore our range of replacement FANUC Teach Pendants, FANUC cables, and teach pendant repair services. Experience the T.I.E. difference and save big on your industrial automation needs.Visit our website now or contact our knowledgeable team to discuss your specific requirements. Let's keep your factory on the path to success with top-notch FANUC components and exceptional savings.TIE offers same day shipping on more than 100,000 FANUC CNC parts in stock. We offer a 1 year in service warranty on all parts and repairs. Shop Parts droch December 1, 2015 at 9:56 PM Thread is Resolved Is there something in the P/N of a teach pendant that tells me which controller it is compatible with? I have a couple Rj2s, an Rj3iA, an LRMate, and a few Rj3iBs here, and was wondering if I could swap pendants among any or all of the different controllers. I mean, I'm pretty sure I've done it already with a couple, but is there something in the TP's part number that would tell me which robot it belongs to? Rather than having a backup TP for each robot (\$\$\$), can't I get away with one or two spare TP's that would cover all of my robots? I may be wrong but when I was enquiring about an RJ3 controller for one of my robots I was told that the teach pendants are all the same (RJ3 or RJ3i anyways) and only the overlay on the front face differs depending on whether the controller is configured for welding or handling so you would have the welding or handling overlay on the teach pendant. When plugged in, the teach pendant buttons would do whatever the software in the controller is set up to do. I transfer my teach pendant between my RJ3 welding robot and my RJ3 and RJ3i handling robots with no issue. Seems better than to fork out anywhere from 800-3500USD for a new pendant. All teach pendants from RJ through R30iA use rs232 for communication and have the same pinout. I've been told by FANUC that they are all interchangeable, even the newer color pendants with an older monochrome, but you'll lose the color menus.R30iB switched transmission protocols and is no longer backwards compatible. there are several different pendants and they are NOT interchangeable.Rj, Rj2, Rj3 single channel estop.Rj2, Rj3, Rj3iB dual channel Estop.iPendants will not work on anything prior to Rj3iB well they will work but they will display monochromatic.Then R30iB touch screens are different.On top of that there are pendants for paint robots,AS for the overlays they are software specific. The HOT KEYS will be different but they will function the same. Awesome, good stuff, guys. Many thanks. Someone mentioned robo-reels the other day and I have one operator who is notoriously rough on TP cables. Sure enough, nonsensical characters started showing on his screen yesterday - which got me checking inventory and wondering what works where. But it sounds like, with mostly Rj2s and Rj3s running HandlingTool, I'm pretty safe on compatibility. Anyway, I think we're going to get a Robo-reel for this cell to see if they are worth putting on each of our robots. At \$400 to replace a standard cable, it doesn't take too many 'accidents' to justify the cost! ACP23 August 30, 2023 at 5:45 PM Thread is Unresolved I wanted to ask the forum for experiences swapping out teach pendants on the R30iB robots.I have a FANUC M-710iC/12L arc welding robot that I was programming a large frame on a positioner. I was up on a pretty tall ladder (12-14 ft off the ground) and while adjusting a clamp the teach pendant fell off the fixture where I had hung it. It totally smashed the plastic case and destroyed the screen so the pendant is dead. I need to replace it and the quote I got from Lincoln Electric was outrageous - \$7000 USD for a replacement! Our vendor setup process is pretty slow at the company I work for so I am looking online at Ebay and other spare parts retailers that have teach pendants. It seems there are many options for \$1000-3000 for a new pendant but it depends on the model purchased.To clarify Lincoln is the only vendor we have setup that deals FANUC parts but if the cost is low enough I can expense it with a company credit card.My question is can I buy an R30iB teach pendant that is generic or has the material handling overlay (they seem to be lower cost than teach pendants with the arc welding membrane) and then replace the membrane overlay?From my understanding the software on the teach pendant is not application specific and that is stored in the controller. Thanks for your time and help! Thanks for the question - did you come right? I have a similar challenge in that I have a used LR Mate 200iD with a R-30iB controller and missing teach Pendant. There are a number available on E-bay and other sites, but I don't know how to ensure that they are compatible with my 2014 unit? I am hoping for a model number decoder? A05B-2255-C101 #EAW ? Teach pendants are an essential component of any FANUC robotic system. They are the handheld devices that are part of a FANUC robot controller. FANUC teach pendants are the most common programming method for FANUC robots. In addition to application programming, FANUC pendants can be used to interact and troubleshoot industrial robots. All FANUC teach pendants feature a display screen, E-stop button, keypad, and a USB port. The display screen contains all the important information needed to program and communicate with FANUC robots. Operators can view and select menu options for setting up, programming, and troubleshooting. The E-stop button is a key safety feature to prevent robot collisions with peripherals. When pressed the E-stop will immediately halt the robot's operation, preventing any accidents. The keypad is used to input application commands as well as select the various menu options. The USB port allows for the backing up and storing of robot data. There are three model types of teach pendants available for FANUC robots. Robot compatibility is based upon the robot's controller model. FANUC's Legacy teach pendant is their older model. The Legacy pendant is used with FANUC's R-J2, R-J3, R-J3iB, R-J3iC, and R-30iA controllers(in some cases). It is the most common FANUC teach pendant since it is compatible with most FANUC controllers. The FANUC R-2000iA and Arcmate 120iB are two of their six axis robots that use the Legacy teach pendant. FANUC's latest teach pendant is their iPendant model. The iPendant comes standard with articulated robots using either the R-30iA, R-30iB or R-30iB Plus controllers which includes the FANUC Lr Mate 200iD and Arcmate 120iC. This teach pendant features a touchscreen display for a more user-friendly interface and faster navigation. A 4D graphics display provides more vivid imagery. FANUC's third teach pendant model is their Haptic iPendant. It features the same functionality as the iPendant but with alerts through vibration. The Haptic iPendant can vibrate to alert operators when certain errors or conditions occur, allowing operators to better focus on programming. The Haptic iPendant is also compatible with R-30iB and R-30iB Plus robots. FANUC's innovative teach pendants allow for easier use of their robots for the successful robotic automation of production related tasks. Their teach pendants are compact and lightweight, allowing operators to easily handle the devices. Programming with a FANUC teach pendant provides the operator access to the robot, being able to observe its movements to ensure accurate programming and robot operation. Just as FANUC continues to improve their industrial robots, the same goes for their teach pendants, keeping FANUC amongst the top robotic manufacturers in the world. Robots Done Right carries a wide selection of used FANUC teach pendants. RDR has teach pendants for R-J2, R-J3, Rj3iB, R-30iA, R-J3iC, and R-30iB controlled robots. Those looking for a teach pendant for the FANUC M-20iA or the M-710iC/50 can find it at Robots Done Right along with ones for other used FANUC robots. Buying a used pendant is ideal for those needing a replacement for a damaged or missing teach pendant, especially for those with older FANUC robots. Purchasing a used teach pendant is also a more affordable option than buying brand new. Robots Done Right sells used FANUC teach pendants. Replacement FANUC teach pendants are available for FANUC Rj, Rj2, Rj3, Rj3iB, Rj3iC, R30iA, and R30iB controlled robots. Please click on the below models for more information.Looking for a FANUC teach pendant not shown? Please contact us for availability. Hi, i have a fanuc robot with a R-30iA mate Open air controller, and a broken teach pendant (TP). is it possible to disconnect the TP and make a few jumpers, log on to the controller via a browser (on a PC) and still run the program in auto mode. If so, how? thank you for your time ; I've done this with ABB robots but haven't tried it a FANUC. ABB has the auto/teach switch on the controller verses Fanuc has one of two on the teach pendant so its more than the safety circuit. Post your question at someone over there may have tried it. I have a couple of older Fanuc pendants in like new condition that I don't use anymore, if they would work for you I would open to selling one or both. Yes you can! Fanuc sells a plug that you can apply inside of the controller to jumper out the pendant. This allows the Estop circuit to remain ok. and you can use robot without Teach pendant.\*

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As a result, there is no repair offered by the OEM for this model, only as an exchange. K+S has had the LCD's reverse engineered and manufactured exclusively. K+S can offer a repair for these pendants rather than forcing an exchange. K+S Services is ISO 9001:2015 certified at all locations. Our continued ISO certification ensures that our level of quality is maintained and our efforts for continuous improvement are always expanding. Category: Automation Repair, FANUC, Teach Pendants | Tags: fanucteachpendants, roboticsystems, teachpenants, teachpendantrepair Previous post: KUKA Teach Pendant Repair As a seasoned member of the manufacturing world, you understand the pivotal role that precision and efficiency play in keeping your factory running smoothly. When it comes to the brains behind your robotic workforce, the FANUC Teach Pendant is a crucial component that ensures your robots uptime and efficiency. 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I've been told by FANUC that they are all interchangeable, even the newer color pendants with an older monochrome, but you'll lose the color menus.R30iB switched transmission protocols and is no longer backwards compatible. there are several different pendants and they are NOT interchangeable.Rj, Rj2, Rj3 single channel estop.Rj2, Rj3, Rj3iB dual channel Estop.iPendants will not work on anything prior to Rj3iB well they will work but they will display monochromatic.Then R30iB touch screens are different.On top of that there are pendants for paint robots,AS for the overlays they are software specific. The HOT KEYS will be different but they will function the same. Awesome, good stuff, guys. Many thanks. Someone mentioned robo-reels the other day and I have one operator who is notoriously rough on TP cables. Sure enough, nonsensical characters started showing on his screen yesterday - which got me checking inventory and wondering what works where. But it sounds like, with mostly Rj2s and Rj3s running HandlingTool, I'm pretty safe on compatibility. Anyway, I think we're going to get a Robo-reel for this cell to see if they are worth putting on each of our robots. At \$400 to replace a standard cable, it doesn't take too many 'accidents' to justify the cost! ACP23 August 30, 2023 at 5:45 PM Thread is Unresolved I wanted to ask the forum for experiences swapping out teach pendants on the R30iB robots.I have a FANUC M-710iC/12L arc welding robot that I was programming a large frame on a positioner. I was up on a pretty tall ladder (12-14 ft off the ground) and while adjusting a clamp the teach pendant fell off the fixture where I had hung it. It totally smashed the plastic case and destroyed the screen so the pendant is dead. I need to replace it and the quote I got from Lincoln Electric was outrageous - \$7000 USD for a replacement! Our vendor setup process is pretty slow at the company I work for so I am looking online at Ebay and other spare parts retailers that have teach pendants. It seems there are many options for \$1000-3000 for a new pendant but it depends on the model purchased.To clarify Lincoln is the only vendor we have setup that deals FANUC parts but if the cost is low enough I can expense it with a company credit card.My question is can I buy an R30iB teach pendant that is generic or has the material handling overlay (they seem to be lower cost than teach pendants with the arc welding membrane) and then replace the membrane overlay?From my understanding the software on the teach pendant is not application specific and that is stored in the controller. Thanks for your time and help! Thanks for the question - did you come right? I have a similar challenge in that I have a used LR Mate 200iD with a R-30iB controller and missing teach Pendant. There are a number available on E-bay and other sites, but I don't know how to ensure that they are compatible with my 2014 unit? I am hoping for a model number decoder? A05B-2255-C101 #EAW ? Teach pendants are an essential component of any FANUC robotic system. They are the handheld devices that are part of a FANUC robot controller. FANUC teach pendants are the most common programming method for FANUC robots. In addition to application programming, FANUC pendants can be used to interact and troubleshoot industrial robots. All FANUC teach pendants feature a display screen, E-stop button, keypad, and a USB port. The display screen contains all the important information needed to program and communicate with FANUC robots. Operators can view and select menu options for setting up, programming, and troubleshooting. The E-stop button is a key safety feature to prevent robot collisions with peripherals. When pressed the E-stop will immediately halt the robot's operation, preventing any accidents. The keypad is used to input application commands as well as select the various menu options. The USB port allows for the backing up and storing of robot data. There are three model types of teach pendants available for FANUC robots. Robot compatibility is based upon the robot's controller model. FANUC's Legacy teach pendant is their older model. The Legacy pendant is used with FANUC's R-J2, R-J3, R-J3iB, R-J3iC, and R-30iA controllers(in some cases). It is the most common FANUC teach pendant since it is compatible with most FANUC controllers. The FANUC R-2000iA and Arcmate 120iB are two of their six axis robots that use the Legacy teach pendant. FANUC's latest teach pendant is their iPendant model. The iPendant comes standard with articulated robots using either the R-30iA, R-30iB or R-30iB Plus controllers which includes the FANUC Lr Mate 200iD and Arcmate 120iC. This teach pendant features a touchscreen display for a more user-friendly interface and faster navigation. A 4D graphics display provides more vivid imagery. FANUC's third teach pendant model is their Haptic iPendant. It features the same functionality as the iPendant but with alerts through vibration. The Haptic iPendant can vibrate to alert operators when certain errors or conditions occur, allowing operators to better focus on programming. The Haptic iPendant is also compatible with R-30iB and R-30iB Plus robots. FANUC's innovative teach pendants allow for easier use of their robots for the successful robotic automation of production related tasks. Their teach pendants are compact and lightweight, allowing operators to easily handle the devices. Programming with a FANUC teach pendant provides the operator access to the robot, being able to observe its movements to ensure accurate programming and robot operation. Just as FANUC continues to improve their industrial robots, the same goes for their teach pendants, keeping FANUC amongst the top robotic manufacturers in the world. Robots Done Right carries a wide selection of used FANUC teach pendants. RDR has teach pendants for R-J2, R-J3, Rj3iB, R-30iA, R-J3iC, and R-30iB controlled robots. Those looking for a teach pendant for the FANUC M-20iA or the M-710iC/50 can find it at Robots Done Right along with ones for other used FANUC robots. Buying a used pendant is ideal for those needing a replacement for a damaged or missing teach pendant, especially for those with older FANUC robots. Purchasing a used teach pendant is also a more affordable option than buying brand new. Robots Done Right sells used FANUC teach pendants. Replacement FANUC teach pendants are available for FANUC Rj, Rj2, Rj3, Rj3iB, Rj3iC, R30iA, and R30iB controlled robots. Please click on the below models for more information.Looking for a FANUC teach pendant not shown? Please contact us for availability. Hi, i have a fanuc robot with a R-30iA mate Open air controller, and a broken teach pendant (TP). is it possible to disconnect the TP and make a few jumpers, log on to the controller via a browser (on a PC) and still run the program in auto mode. If so, how? thank you for your time ; I've done this with ABB robots but haven't tried it a FANUC. ABB has the auto/teach switch on the controller verses Fanuc has one of two on the teach pendant so its more than the safety circuit. Post your question at someone over there may have tried it. I have a couple of older Fanuc pendants in like new condition that I don't use anymore, if they would work for you I would open to selling one or both. Yes you can! Fanuc sells a plug that you can apply inside of the controller to jumper out the pendant. This allows the Estop circuit to remain ok. and you can use robot without Teach pendant.\*